

Listing of Claims

This listing of claims will replace all prior versions and listings of claims in the application:

1. (Currently Amended): In a system including a document repository, a method comprising:
 - a) determining, automatically, a level of similarity between at least two of a plurality of discrete elements stored in the document repository; and
 - b) storing data representative of a link between the elements based in-part on the level of similarity within the document repository;
 - c) retrieving a document from the repository;
 - d) determining a document type and a physical structure for the document;
 - e) identifying one or more conceptually meaningful segments (elements) within the document based on at least one of the document type and the physical structure.
 - e) f) wherein said document repository is automatically updated by said system whenever a discrete element is added to the document repository.
2. (Original): The method of claim 1, wherein the document repository includes documents of at least one type selected from the group comprising a plain text document, a formatted text document, a presentation with discrete pages or slides, a diagram, a spreadsheet, programming code, a semi-structured document database, a text document with mark-up language tags, and a fully structured relational database.
3. (Cancelled): The method of claim 1, further comprising:
 - retrieving a document from the repository;
 - determining a document type and a physical structure for the document;and
 - identifying one or more conceptually meaningful segments (elements) within the document based on at least one of the document type and the physical structure.

4. (Original): The method of claim 1, further comprising:
displaying the link on a display.
5. (Original): The method of claim 1, wherein the document repository includes at least two physical repositories.
6. (Previously Presented): The method of claim 1, further comprising classifying the plurality documents as belonging to one category of a plurality of predetermined categories, the classification being based on at least one of the group comprising a format for the document, a physical structure for the document, a logical structure for the document, a size of the document, a location where the document is stored, and a content of the document.
7. (Currently Amended): A method for determining a relationship between documents, the method comprising:
 - a) retrieving a plurality of documents from a document repository;
wherein said document repository may contain documents of various types;
 - b) segmenting at least two documents of the plurality of documents into a plurality of conceptually meaningful segments;
 - c) determining if a segment of one document is related to a segment of another document, the one document being of a first type and the other document is of either a first type or of a second type; and
 - d) storing data representative of the relationship between the segments within the document repository;
 - e) comparing the plurality of segments by extracting a plurality of terms from the segments, and for each segment, determining the frequency of at least one of the plurality of words within the segment.
8. (Original): The method of claim 7, further comprising:
 - d) selecting documents from the plurality of documents; and
 - e) storing the selected documents in a file store;

wherein the step of segmenting further comprises segmenting at least one of the selected documents into a plurality of conceptually meaningful segments.

9. (Original): The method of claim 7, further comprising:
d) classifying the plurality of documents.

10. (Original): The method of claim 9, wherein the document repository is organized in accordance with a directory structure, wherein the step of classifying further comprises classifying the plurality of segments based in-part on the directory structure.

11. (Original): The method of claim 9, wherein each document comprises a document name, wherein the step of classifying further comprises classifying the plurality of segments based in part on the document name.

12. (Original): The method of claim 9, wherein the step of classifying further comprises classifying the plurality of segments as being a segment type selected from a group comprising requirement, design, code, testing, defects, issues and requests.

13. (Original): The method of claim 9, wherein the step of classifying further comprises classifying the plurality of segments based in part on a plurality of classification keywords.

14. (Cancelled): The method of claim 7, further comprising comparing the plurality of segments.

15. (Cancelled): The method of claim 14, wherein comparing further comprises:

- a) extracting a plurality of terms from the segments; and
- b) for each segment, determining the frequency of at least one of the plurality of words within the segment.

16. (Currently Amended): The method of claim ~~14~~ 7, wherein the step of comparing further comprises performing a pair-wise cosine similarity analysis among the plurality of segments.

17. (Original): The method of claim 7, wherein the document repository includes documents associated with a software project.

18. (Withdrawn): A method for analyzing a document, comprising:

- a) receiving a document, the document including data and a document type, the document the document type having an associated physical structure;
- b) determining a logical structure of the document based in part on the data;
- c) selecting a subset of the data based on at least one of the group including the associated physical structure and the logical structure; and
- d) storing a document segment, the document segment including the selected subset of the data.

19. (Withdrawn): The method of claim 18, wherein selecting further comprises using an application programming interface to access the subset of data.

20. (Currently Amended): A system for determining a relationship between documents, the system comprising:

- a) a retrieval tool for retrieving a plurality of documents from a document repository;
- b) a segmentation tool for segmenting at least one document of the plurality of documents into a plurality of conceptually meaningful segments; and
- c) a data storage device configured to store data representative of a link between at least one segment and one selected from the group comprising the plurality of segments and the plurality of documents.

d) a comparison tool for comparing the plurality of segments;

e) wherein the comparison tool is configured to extract a plurality of terms from the segments and for each segment, determine the frequency of at least one of the plurality of terms within the segment.

21. (Original): The system of claim 20, further comprising:

d) a selection tool to select documents from the plurality of documents;
and

e) a file store to store the selected documents;
wherein the segmenting tool is further configured to segment at least one
of the selected documents into a plurality of segments.

22. (Original): The system of claim 20, further comprising:

d) a classification tool for classifying the plurality of documents.

23. (Original): The system of claim 22, wherein the document repository is
organized in accordance with a directory structure, wherein the classification tool is
further configured to classify the plurality of documents based in-part on the directory
structure.

24. (Original): The system of claim 22, wherein each document comprises a
document name, wherein the classification tool is further configured to class& the
plurality of documents based in part on the document name.

25. (Original): The system of claim 22, wherein the classification tool is
further configured to classify the plurality of documents as being a document type
selected from a group comprising requirement, design, code, testing, defects, issues and
requests.

26. (Original): The system of claim 22, wherein the classification tool is
further configured to classify the plurality of documents based in part on a plurality of
classification keywords.

27. (Cancelled): The system of claim 20, further comprising a comparison tool
for comparing the plurality of segments.

28. (Cancelled): The system of claim 27, wherein the comparison tool is
further configured to:

a) extract a plurality of terms from the segments; and

b) for each segment, determine the frequency of at least one of the plurality of terms within the segment.

29. (Currently Amended): The method of claim ~~27~~ 20, wherein the comparison tool is further configured to perform a cosine similarity analysis on the plurality of segments.

30. (Original): The system of claim 20, wherein the document repository includes documents associated with a software project.